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EXPEDITIONS OF THE INSTITUTE OF RANK METALS

State Scientific Research

Frof I. Ya. Bashilov

During the summer of the current year [1932] two expeditions to Central Asia were organized by Girchaet. One of the expeditions was sent to the beds of uranium-radium cree near the city of Rhedzhent in the Cadrian SaR, and the second was sent to the jakend of Cheleken in the Cadrian SaR, in the Turingen SSR.

The task of the first expedition was: (1) exploration of the Taboskar bed of aranism and radius with regard to other components included in the rook; (2) the sollection of various sorts of cross for tests according to the methods used in the Saboratories of Girodnet and the Meskey Institute of Microchanical Technology.

As a result of the work of the expedition it was established that the content of burium oxide in the ore is not so great, and consequently the processing of the ores was made more difficult. Besides this, during the ownest year a considerable amount of rich ore material was discovered in this bed with a content of uranous and uranic oxide up to 1.7%, and in some individual tests even higher. Both of these circumstances fully indicate the industrial significance of the bed and increase the possibility of organizing an experimental plant on its base for the extraction of radius.

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development because of the low-everage content of remiss and arminer. Alto, the possible existence in the one of barium oxide and coluble sulphurlo naits could complicate the processing. But the undoubtedly large total supplies of radium and uranium have accessitated more attentive study of the bed itself and methods of processing the ore. We a result of extensive work, original and new means of processing the ore of this bed have been found, and extensive prospecting has determined all of its features. The Taboshar bod is becoming an important industrial objective, and the beginding of explicitation is set by Clavredmet for 1955.

attracting radium from radium-bearing bering vaters under production conditions. These vaters, discharged together with oil from wells, are completely new type of raw material for obtaining radium. This was first established by flowiet research in the last 6-8 years. The waters on Cheleian Island are distinguished by a high temperature (up to 60°), with a large content of soluble salts, and contain on the average from 0.3 to 0.5 mg of radium for every 1,000 cubic maters. Lengthy inboratory work preceding the expedition was the basis for planning a series of possible methods for extracting radium from such vectors. As a result of the work of the expedition, the difficult problem of extracting r small amount of radium from an enormous mass of water was solved. A very staged to a problem for organizing a continuously operating station.

The expedition worked in two directions. It sought, first, methods of extracting redium from the water in the form of certain concentrations, and secondly, the means of separating these concentrations from the mass of the water. The latter was especially difficult, as it had to be done very other letely and very cheaply so that the cost of the radium would not exceed the existing price.

Todine is already being extracted from these waters, and the extraction of ladium is possible. In conducting this work <u>Girodmet</u> was helped by the edministration of Vokhimfarm, and in particular by the edministration of the Cheleken indine plant in its field.

The success of both expeditions, apart from their great theoretical tenterest, permits a great increase in radium supplied in research laboratories and medical establishments of the Societ Union and a wider use of this exceptionally rare and expensive metal.

Both expeditions carried out their work with the constant and effective support of local party and Soviet organizations of the Tailnik SSR and the Unrimen SSR. This determined the final success of their work to a considerable extent.

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